INDIANA TECH FLASH NEWSLETTER

Indiana Tech Flash

Indiana's Most Comprehensive Electronic Resource For Engineering & Technology Education.



Special points of interest:

- Eleven Pages of Resources!
- Upcoming Events & Workshops



Features inside this issue include:

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IUPUI POWER Camp 8

Grants, Awards, & 9-11

April 2010

Indiana Teachers & Programs Honored by ITEEA!





At the International
Technology and Engineering
Education Association
conference in Charlotte, North
Carolina (March 17-20)
several Indiana teachers and
programs were honored.

Honored Hoosiers include...

 Erica Ruckman and Dan Ginther were honored for Teacher Excellence.

- Fishers Junior High School and Goshen High School were honored for Program Excellence.
- Wade Thatcher was honored with the Outstanding Undergraduate College Student of the Year.
- Dr. Richard Seymour was honored with the Lockette/Monroe -Humanitarian Award.
- Megan Jackson from Indiana State University, FTE \$1,000 Undergraduate Scholarship.

- Ken Amos received the Outstanding Affiliate Representative.
- Ball State University won the TECA Technology Challenge.
- Indiana State University was awarded the Outstanding Technology Education Collegiate Association Chapter Award and the Outstanding TECA Membership Award.

Congratulations to all of the Indiana teachers and programs that have been honored, as well as to ALL of you who work everyday to make you students great! -mfitz

Upcoming Dates & Events

April 13, 2010 The Indiana National Energy Education Development Project Workshop - Scottsburg

April 14, 2010 The Indiana National Energy Education Development Project Workshop - Rensselaer

April 15, 2010 The Indiana National Energy Education Development Project Workshop - Rensselaer

April 23, 2010 The Indiana National Energy Education Development Project Workshop - Huntingburg

April 23, 2010 Inaugural Boiler Tech Challenge 2010; Aim for the Stars - Columbus

April 26, 2010 IMSTEA Super Mileage Challenge - O' Reilly Raceway Park

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The State of Indiana makes "surplus" computer hardware available to educational entities under IC 5-22-21-7.5. Questions about the program or about the status of pending orders may be directed to bflake@idoa.in.gov

http://www.doe.in.gov/ super/2010/01-January/013010/ documents/ surplus_computer_ request.pdf





Discovering Fluid

Power

Request a free DVD of Discovering Fluid Power by contacting us. This 30-minute program was developed by the Center for Compact and Efficient Fluid Power (CCEFP) in cooperation with the National Science Foundation, the National Fluid Power Association, 15 other fluid power associations around the globe, as well as manufacturers and users of hydraulics and pneumatics.

http://www.ccefp.org/ news-desk/videos

"Strong Structures"





Blender 3-D design and animation software

Blender is the free open source 3D content creation suite, available for all major operating systems

> http:// www.blender.org/

Toys from Trash

A huge collection of resources, videos about

projects that can be made from recycled materials from your classrooms. http:// www.arvindguptatoys. com/toys.html

ITEEA Membership Benefits

Our members are classroom teachers from elementary to high school, local and state/ provincial supervisors, college/university faculty, and museum staff.

Their common ground is an interest and involvement in technology education. Serving members since 1939, ITEEA brings together technology education professionals to share ideas, gain professional development, and

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improve public understanding of technological literacy.



http:// www.iteaconnect.org/ Membership/ MembershipBenefits. pdf



Kevin Kelly tells technology's epic story In this wide-ranging, thought-provoking talk from TEDxAmsterdam.

Kevin Kelly muses on what technology means in our lives -- from its impact at the personal level to its place in the cosmos.

http://www.ted.com/ talks/ kevin_kelly_tells_techn ology_s_epic_story. html



VU is committed to broadening the dual credit options available to Indiana students and providing them with opportunities to receive hands-on college experience in career and technical areas. With this in mind, we are pleased to announce that beginning in the Fall of 2009, Project EXCEL will waive the tuition fee for students enrolled in dual credit courses in select career and technical areas.

http://www.vinu.edu/ cms/opencms/ academic_resources/ project_excel/



Kevin Kelly on how technology evolves

Tech enthusiast Kevin Kelly asks "What does

technology want?" and discovers that its movement toward ubiquity and complexity is much like the evolution of life.

http://www.ted.com/ talks/ kevin_kelly_on_how_te chnology_evolves.html



PTC Pro/Engineer
Academy

Gain nearly 1 million worth of FREE CAD Software today!

Welcome to the PTC/ Academy learning portal. Here you will find self directed and self paced tutorials to get you started using your FREE Pro/ ENGINEER Wildfire! http:// www.ptcacademy.com/



Elementary Design Briefs

LITE is a nonprofit Michigan corporation dedicated to assisting in the integration of Technology Education teaching and learning in schools around the state and Great Lakes region. We develop, manage, and provide resources and services for standards-based instruction.

http://litesource.org/ Aux pages/ Elementary% 20Briefs.html



education

Animoto for Education

If you are a teacher or educator, apply for a free Animoto all-access pass

Produce unlimited full length videos from photos.

http://animoto.com/ education

apply now »

DragonFlyTV's SciGirls videos and activity guides



Do a great job of bringing "aeek chic" to kids. The

DVDs feature a group of hip, racially diverse girls from around the country having fun with science and getting down and dirty whether it's digging in the

bogs, playing taiko drums, building a doghouse, snorkeling, or playing sports. The girls make science colorful and fun, while explaining and demonstrating science concepts and serving as real world role models for your female students.

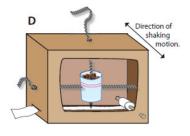
http:// www.womentechstore.c om/scigirls.html



RubiStar is a free tool to help teachers create quality rubrics.

JBISTAI

http:// rubistar.4teachers.org/ index.php



Build your own Seismograph

Students will gain a greater appreciation of how a seismograph works, and a better

understanding of recordings of ground motion that they see on seismograms. In small groups of 3-4 students, students are asked to design and construct a seismograph using common household and craft materials provided.

Students will demonstrate to the class how their seismographs record motion.

http://www.iris.edu/hq/ files/programs/ education and outreach/ aotm/8/1.SeismographM odel-Lahr.pdf

Technology and Children



How will we meet the needs of society in the future? Where will the technologists, engineers, and innovators of the next generation come from? How can we stop the erosion of interest in science, technology, engineering, and math?

The answers to these questions may lie within your own classrooms. Elementary education teachers who use lessons that introduce creativity and innovation can help

students with career exploration and development.

http:// www.iteaconnect.org/ Publications/TandC/ Sep09.pdf

Architect Studio 3D



Design Studio

On this Web site, you can design a house, walk through it in 3D, and then share it with the world. You can also learn more about architecture, past and present, and explore Frank Lloyd Wright's life and work.

http:// www.architectstudio3d.or g/AS3d/home.html



DonorsChoose.org

is a simple way to provide students in need with resources that our public schools often lack. At this not-for-profit web site, teachers submit project proposals for materials or experiences their students need to learn. These ideas become classroom reality when concerned individuals. whom we call Citizen Philanthropists, choose projects to fund.

http:// www.donorschoose.org



Everyday Design Briefs

The following design briefs have been posted as a courtesy to teachers in Chesterfield County, Virginia. Remember to check out the activities in the grades above and below the grade you are look for. Most activities can be adapted to another grade level with a minimum of work.

http:// www.childrensengineeri ng.com/ everydaywoolridge.htm

FREE Time Lapse Stock Footage

10 DVDs with Hundreds of HD and SD Time Lapse Video Clips

- Pay only \$8.41 S&H for each DVD you request. (Normally \$249 + S&H)
- There is no catch! Just keep us in mind for future stock footage needs.
- Hurry, there are only 500 copies available!

Footage Firm is giving away 10 new time lapse footage collections containing over 150 clips: Get your collections now! All 10 collections are still available, but they are only giving away a limited number of these, so if you are interested in any of them you should request yours before they run out.

http:// www.footagefirm.com Page 6 Indiana Tech Flash



Lesson: Wind Power

This lesson plan outlines an inquiry-based activity that helps students discover the basics of wind power technology by building and refining a wind turbine. In addition. students examine the concept of renewable energy, identify the benefits and drawbacks of wind power. and compare its costs and impact on the environment with other energy sources.

http://teachers.egfik12.org/lesson-windpower/ Civil Air Patrol (CAP)
promotes and supports
aerospace education



CAP educational programs (for its own members and the general public) help prepare American citizens to meet the challenges of a sophisticated aerospace society and understand its related issues. CAP offers



national standards-based educational products, including a secondary textbook, Aerospace: The Journey of Flight, and the middle-school-level Aerospace Dimensions.
Aerospace Education
Members can get
classroom materials and
lesson plans from CAP.

http:// members.gocivilairpatro l.com/ aerospace_education/ index.cfm

Great Explorations in

Math and Science
(GEMS) Teacher

Handbook available for
download



The GEMS
Teacher's
Handbook is
both an
introduction

to Great Explorations in Math and Science (GEMS) and a clear explanation of the elements included in all GEMS guides available from the Lawrence Hall of Science, University of California, Berkeley. For the teacher considering integrating GEMS into his or her curriculum for the first time, the handbook describes the philosophy behind the series, its alignment with the National Science Education Standards, its flexibility in diverse settings, and the structure

of its teacher's guides.
For all teachers, including those already familiar with GEMS, the book provides teaching strategies and tips that apply to all inquiry-based science and math activities.

http://
lawrencehallofscience.o
rg/gems/GEMSpdf/
teacher%27s%
20handbook.pdf

NASA Launches the Space Communication and Navigation (SCaN) simulation

The Space
Communication and
Navigation (SCaN)
simulation, an "interactive
simulation Web site
launched by NASA that
enables anyone to
experience space mission
activities, such as docking
the space shuttle at the
International Space
Station" and traveling to



Mars. "The interactive simulation also offers a virtual 3-D experience to visualize how

data travels along various space communications paths." Barbara Adde of NASA's Office of Space Communications and Navigation said, "The elaborate space communications networks that connect scientists and engineers with NASA's spacecraft is

essential to all of NASA's missions and can be a challenging concept to comprehend. ... This simulation helps explain this complex infrastructure in an engaging way."

http://www.nasa.gov/ multimedia/3d_resource s/spacecomm.html



Engineering Alliance, a
partnership among
Project Lead The Way
(PLTW), TSA and
SkillsUSA has been
launched and is now
available for preengineering programs.
Designed for PLTW
middle and high school
programs, Engineering
Alliance provides a limited
number of online

competitions and leadership activities. All components are online and accessed through the **Engineering Alliance** website. Current TSA chapters may choose to also affiliate with Engineering Alliance. Be among the first 200 programs to affiliate with Engineering Alliance and receive Founding Partner status - immediate access to program components through the 2010-2011 school year, a Founding Partner plague and

website recognition for your school. Information about Engineering Alliance can be found in the PLTW press release and on the Engineering Alliance website. If you have questions about Engineering Alliance please contact Sandy Honour at shonour@tsaweb.org or 1 -888-860-9010 (toll free).

http:// engineeringalliance.org/



SmartDraw is the ideal floor plan software

Start with the exact template you need—not just a blank screen. Add your information and Smart-

Draw does the rest, aligning everything and applying professional design themes for great results every time. Download Our Floor Plan Software FREE!

http:// www.smartdraw.com/



GCFLearnFree.org

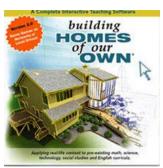
We create and provide quality, innovative online learning opportunities to anyone who wants to improve the technology, literacy, and math skills necessary for them to be successful in both work and life.

We believe there's freedom in the ability to



learn what you want, when you want, regardless of your circumstances.

http:// www.gcflearnfree.org/ default3d.aspx



Building Homes of our Own

Good news! We found one last box of Buildina Homes of Our Own CD-Rom games. Although our grant for providing free single copies to educators has expired, we can liquidate these last copies for a shipping and handling fee of \$12.00. If you are interested in securing one or more copies of the game, please contact us at dhayashi@ahacomm.com.

http:// www.homesofourown. org/

Welcome to the NASA <u>Lunar Electric Rover</u> (LER) Simulator

You don't need a driver's license, but you still need to buckle up as the LER Simulator gives you a glimpse of what it might be like to support the activities of a functioning Lunar Outpost. Get busy. You never know if your skills here will become a major part of the NASA Astronaut application process in the future.



http://www.nasa.gov/ multimedia/podcasting/ nasaedge/iphone.html Page 8 Indiana Tech Flash



Electric Power— Decisions for the Future

A look at the last 25 years of electricity consumption in the U.S. and the implications for the future, plus an activity that has students measure home electricity consumption and determine the effects of conservation practices.

http:// www.techdirections. com/

POWER SUMMER CAMP July 11-17, 2010

Preparing Outstanding Women for Engineering Roles (POWER)

Power is a week-long summer residential camp for young ladies that will be entering 10th, 11th, and 12th grades. The POWER camp provides the opportunity to explore careers in engineering through hands-on activities and interaction with both professional female engineers and engineering college students.

http:// www.engr.iupui.edu/ power/

Indiana Robotics Educators grant has been funded once again for Summer 2010

Please register early and pass this information along to other teachers. We have a lot of robot kits to distribute. First year participants will receive a VEX Robotics Starter Kit,

Autodesk Inventor Professional Software, Autodesk Curriculum, workshop CD and other items Second year participants will receive a VEX Starter Kit, VEX Sensor Kit, workshop CD and other items. Third year participants will receive a VisualEdge Competition Kit and workshop CD. The third year workshop is only available in Indianapolis. Select the link to schedule your summer date and location to participate!

http://jotform.com/ form/10801735639



STAR-LITE laboratory



Work with your colleagues (some humanoid, some not) to complete quests in a lab.
The STAR-LITE laboratory can be chaotic



and safety violations will occur. You will make critical safety decisions to ensure that you and your colleagues work safely in a lab. STAR-LITE (Safe Techniques Advance Research — Laboratory

Interactive Training
Environment) is an
innovative and
groundbreaking method
to learn about laboratory
safety techniques.

http:// www.starlite.nih.gov/

Mini-Urban Challenge

Free high school robotics competition offers real-world engineering lessons

The Air Force Research Laboratory and the Institute of Navigation are hosting the Second Annual Mini-Urban Challenge on May 22 at Wright State University in Dayton. The competition invites high school students to design, build and program a car using

LEGO® MINDSTORMS® sensors to navigate at the contest site through a 20-foot by 20-foot city made entirely of LEGOs® building sets.

There is no cost for schools or students to participate because the sponsors provide all necessary materials, sensors and software. The competition provides

high school students with real-world engineering lessons in problem solving, technical language and teamwork with a goal of getting more students excited about engineering.

Direct any questions to Lieutenant Casey Miller at (937) 257-4775 or Casey@MiniUrban Challenge.com

> http://www.ion.org/ outreach/muc/



Enter your school or group into the fourth national Reach for the Stars Rocket Contest

The contest is safe and exciting. The contestant

whose rocket lands closest to the target after two launches wins. The contest is great training for advanced rocketry contests like the Team America Rocketry Challenge (TARC) and NASA's Student Launch Initiative.

Six National winners: will receive their trophy at the Astronaut Hall of Fame and celebrate at the Kennedy Space Center Visitor Complex OR Receive their trophy from author, Homer Hickam and celebrate at the October Sky Festival in Coalwood, West Virginia.

http://therocketman.net/ page0018.html



Enter Your Students in a Google Design
Competition

Incidiona Department of Education
SUPPORTING STUDENT SUCCESS

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2010-11 Indiana Perkins

IV Tech Prep Grant

Applications

The Indiana Department of Education (IDOE) is pleased to announce the availability of federal Tech Prep funds for 2010-11. The purpose of this Request for Proposals (RFP) is to solicit proposals from consortia comprised of area CTE districts, secondary and postsecondary institutions, and business and employer partners for the planning and implementation of projects that meet the

requirements outlined in the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Perkins IV).

See March 12 of the Indiana Superintendent's Mail for more details.

http://www.doe.in.gov/ super/ Are you a K-12 educator?
Register for Doodle 4
Google, a competition
where students design
the Google logo using a
theme. The winning
student gets a \$15,000
college scholarship,
\$25,000 to the school for
new computers, and a
chance to have his or her
design on the
Google.com homepage.

http://www.google.com/ doodle4google

Museum of Science | EDUCATORS

Summer 2010 Teacherin-Residence Program at the Museum of Science

Engineering is
Elementary Summer
"Integrating Engineering
and Mathematics"
Teacher-in-Residence
Positions. Spend five
weeks at the Museum of
Science as part of our
Teacher-in-Residence
program! Immerse
yourself in the rich

learning environment of the museum, participate in weekly teacher learner seminars, meet other teachers, and work on a relevant Museum project. EiE is recruiting

elementary teachers to develop innovative math lessons that connect to the EiE curriculum. Prior experience with EiE materials is required.

Participants will also be expected to test lessons in their classrooms and return to the Museum on Saturday, December 4 for a call-back meeting. Program Offerings will include a \$3,000 stipend, Massachusetts PDPs and complimentary EiE materials.

http://www.mos.org/ educators/ professional_developm ent_and_events/ professional_developm ent&d=2597 Page 10 Indiana Tech Flash



Combining Academic and Technical Studies to Prepare Students for College and Careers

Students preparing for college and careers need access to careerfocused programs of study that combine challenging academic content and intellectually demanding career/technical (CT) studies. Schools wanting to raise student achievement can create career-focused programs of study that connect a solid academic core with a sequence of CT courses.

http://
publications.sreb.org



TEACH GRANT PROGRAM

Through the College Cost
Reduction and Access
Act of 2007, Congress
created the Teacher
Education Assistance for
College and Higher
Education (TEACH) Grant
Program that provides
grants of up to \$4,000 per

year to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. If you are interested in learning more about the TEACH Grant Program, you should contact the financial aid office at the college where you will be

enrolled to find out if they
will participate in the
TEACH Grant Program.
For a listing of the TEACH
Grant eligible institutions,
click here.

http://studentaid.ed.gov/ PORTALSWebApp/ students/english/ TEACH.jsp



<u>Public Service Loan</u> Forgiveness Program

As a teacher in a public school or public service job you might be all eligible for the **Public Service Loan**Forgiveness Program.

Please be advised that your loans must be with The Federal
Department of Education and they may also be able to help consolidate your loans for you.

A <u>Consolidation Loan</u> allows you to combine one or more of your federal education loans into a new loan that offers you several advantages such as one monthly payment, flexible repayment options, and reduced monthly payments. For more details contact the Public Service Forgiveness Program at: Contact 1-800-848-0979

http://www.finaid.org/ loans/ publicservice.phtml



Federal Perkins "Loan"
Cancellations for
Teaching in a
Designated Subject
Shortage Area

This cancellation is based on full-time teaching if there is a shortage of teachers in your subject area. Each year the state education agency

determines any subject shortage areas in the elementary and secondary schools within the state.

Check with your local school system or state education agency to find out if your subject matter area has been so designated. If you teach full time in science, mathematics, foreign language, or bilingual education, you qualify for cancellation even if the state has not designated one of these subject areas as a shortage area. the "Teacher Shortage Areas" a nationwide listing by content area.

http://studentaid.ed.gov/ PORTALSWebApp/ students/english/ cancelperk.jsp

Mike Fitzgerald Education Specialist Indiana Department of Education mfitzger@doe.in.gov 317-232-6990

It is the policy of the Indiana Department of Education not to discriminate on the basis of race, color, religion, sex, national origin, age, or disability, in its programs, activities, or employment policies as required by the Indiana Civil Rights Law (I.C. 22-9-1), Title VI and VII (Civil Rights Act of 1964), the Equal Pay Act of 1973, Title IX (Educational Amendments), Section 504 (Rehabilitation Act of 1973), and the Americans with Disabilities Act (42 USCS §12101,et. seq.).

Inquiries regarding compliance by the Indiana Department of Education with Title IX and other civil rights laws may be directed to the Human Resources Director, Indiana Department of Education, Room 229, State House, Indianapolis, IN 46204-2798, or by telephone to 317-232-6610, or the Director of the Office for Civil Rights, U.S. Department of Education, 111 North Canal Street, Suite 1053, Chicago, IL 60606-7204



GRANTS, AWARDS & OPPORTUNITIES

INDOT offering limited number of scholarships
In a qualifying civil engineering program are encouraged to learn more and download the two-page scholarship application. Eligible Civil Engineering students accepted into or currently enrolled in the School of Engineering at an ABET accredited Indiana college or university may apply. Scholarship recipients also benefit by working for INDOT during summer breaks and after graduation. A limited number of scholarships are available. Apply Now! Scholarship amounts are \$3,125 per semester or \$2,083 per trimester. Scholarships can be applied toward an undergraduate or graduate degree in Civil Engineering, or any combination thereof, not to exceed five years total with a maximum of two years toward a graduate program. Scholarship recipients must attend school full-time.

2010-11 Indiana Perkins IV Tech Prep Grant Applications The Indiana Department of Education (IDOE) is pleased to announce the availability of federal Tech Prep funds for 2010-11. The purpose of this Request for Proposals (RFP) is to solicit proposals from consortia comprised of area CTE districts, secondary and postsecondary institutions, and business and employer partners for the planning and implementation of projects that meet the requirements outlined in the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Perkins IV).

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Shade Structure Program
The American Academy of Dermatology's Shade Structure
Program awards grants in the amount of \$8,000 each for the purchase of permanent shade
structures designed to provide shade and ultraviolet(UV) ray protection for outdoor areas.
The AAD also provides a permanent sign to be displayed near the shade structure that
promotes the importance of sun safety. The AAD receives support for this program from
Johnson & Johnson Consumer Products Company.

2010 Toyota International Teacher Program a fully-funded professional development program for U.S. educators. The program will take place November 20 – December 4, 2010 and the deadline to apply is May 26, 2010. Questions or more information, contact by email toyotateach@iie.org or by phone (toll-free) 877-832-2457.

<u>Donors Choose</u> Here's how it works: public school teachers from every corner of America post classroom project requests on DonorsChoose.org.

Indiana Space Grant Consortium for grants, scholarships, etc Indiana participates in a Consortium in order to carry out education, research, and public outreach activities in science, mathematics, engineering, and technology (STEM), as well as additional fields related to space, aeronautics, aviation, and Earth system science, while endeavoring to increase the financial and government support available to Space Grant Consortia. Each Consortium is made up of colleges, universities, businesses, and other private and public sector institutions, all working to further aerospace education and career training.